

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference H0498.70284	FOR FURTHER ACTION <small>see Form PCT/ISA/220 as well as, where applicable, Item 5 below.</small>	
International application No. PCT/US2007/024222	International filing date (day/month/year) 20/11/2007	(Earliest) Priority Date (day/month/year) 21/11/2006
Applicant PRESIDENT AND FELLOWS OF HARVARD COLLEGE		

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International search report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of:

- ☒ the international application in the language in which it was filed
☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).

c. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box No. II)

3. ☐ **Unity of invention is lacking** (see Box No. III)

4. With regard to the title,

- ☒ the text is approved as submitted by the applicant
☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

- ☒ the text is approved as submitted by the applicant
☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. _____
☐ as suggested by the applicant
☐ as selected by this Authority, because the applicant failed to suggest a figure
☐ as selected by this Authority, because this figure better characterizes the invention
- b. ☒ none of the figures is to be published with the abstract

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/024222

A. CLASSIFICATION OF SUBJECT MATTER

INV. H01L29/06 H01L29/16 C30B29/06 H01L21/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ZHANG Y F ET AL: "Bulk-quantity Si nanowires synthesized by SiO sublimation" JOURNAL OF CRYSTAL GROWTH, ELSEVIER, AMSTERDAM, NL, vol. 212, no. 1-2, 1 January 2000 (2000-01-01), pages 115-118, XP004196212 ISSN: 0022-0248 abstract ----- -/-	1-15, 20, 24-35, 49, 50

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

10 October 2008

Date of mailing of the international search report

17/10/2008

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INTERNATIONAL SEARCH REPORT

International application No

PCT/US2007/024222

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SHI Y ET AL: "Long Si nanowires with millimeter-scale length by modified thermal evaporation from Si powder" APPLIED PHYSICS A; MATERIALS SCIENCE & PROCESSING, SPRINGER, BERLIN, DE, vol. 80, no. 8, 1 May 2005 (2005-05-01), pages 1733-1736, XP019336761 ISSN: 1432-0630 the whole document	1-39, 49, 50
X	WO 2005/119753 A (NANOSYS INC [US]; PAN YAOLING [US]; DUAN XIANGFENG [US]; DUBROW BOB [U] 15 December 2005 (2005-12-15) paragraph [0091]	40-48
X	US 2005/266662 A1 (YI SUNG S [US] YI SUNG SOO [US]) 1 December 2005 (2005-12-01) paragraph [0054]	40-43

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2007/024222

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2005119753 A	15-12-2005	AU 2005251089 A1	15-12-2005
		CA 2564220 A1	15-12-2005
		EP 1747577 A2	31-01-2007
		JP 2007535413 T	06-12-2007
		KR 20070011550 A	24-01-2007
US 2005266662 A1	01-12-2005	WO 2006085903 A1	17-08-2006